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## PATENT ABSTRACTS OF JAPAN

(11)Publication number : 10-034530

(43)Date of publication of application : 10.02.1998

(51)Int.Cl.

B24B 37/04

(21)Application number : 09-103380

(71)Applicant : SPEEDFAM CORP

(22)Date of filing : 21.04.1997

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(30)Priority

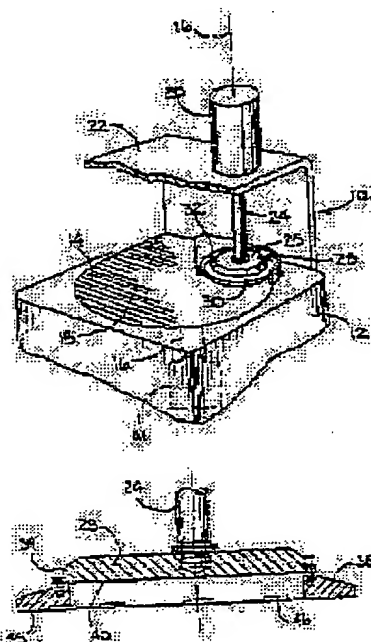
Priority number : 96 635020 Priority date : 19.04.1996 Priority country : US

## (54) POLISHING DEVICE PROPERLY HANDLING FLUID POLISHING MEDIUM

(57)Abstract:

**PROBLEM TO BE SOLVED:** To improve polishing of the central part of a workpiece by forming a holding device for polishing the workpiece, of a pressure plate part for applying downward pressure to the workpiece, and a holding ring part having upper and lower faces and inner and outer faces, and forming a plurality of recessed parts at the lower face of the holding ring part.

**SOLUTION:** A polishing machine 10 has a pressure plate 28 supported rotatably and tiltably to a lower end 25 of a power cylinder 20. This pressure plate 28 holds a silicon wafer 30 placed on a polishing pad 18, and a continuous holding ring 32 is fitted to the periphery of the wafer 30 and pressure plate 28 to hold the wafer 30 under the pressure plate 28. This holding ring 32 is composed of an upright ring part 40 and a relatively wide ring-like flange member 45 extended outward from the pressure plate 28, and has a plurality of non-radial channels 46 spaced along the bottom face. Such a holding ring 32 feeds polishing slurry toward the center of the substrate 30 to be polished when a polishing wheel 14 is rotated counterclockwise.



## LEGAL STATUS

[Date of request for examination]

[Date of sending the examiner's decision of rejection]

[Kind of final disposal of application other than the examiner's decision of rejection or application converted registration]

[Date of final disposal for application]

[Patent number]

[Date of registration]

[Number of appeal against examiner's decision  
of rejection]

[Date of requesting appeal against examiner's  
decision of rejection]

[Date of extinction of right]

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